

Mouse TSLP Protein (His Tag)

Catalog Number: 51005-M08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

TSLP

Protein Construction:

A DNA sequence encoding the mouse TSLP (Q9JIE6) (Met 1-Glu 140) was expressed, with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at $-70\text{ }^{\circ}\text{C}$

Predicted N terminal: Tyr 20

Molecular Mass:

The secreted recombinant mouse TSLP comprises 132 amino acids and has a calculated molecular mass of 15.4 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 22-27 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

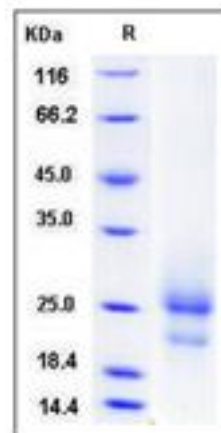
Store it under sterile conditions at $-20\text{ }^{\circ}\text{C}$ to $-80\text{ }^{\circ}\text{C}$ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Thymic stromal lymphopoietin (TSLP) is an interleukin 7 (IL-7)-like cytokine originally characterized by its ability to promote the activation of B cells and dendritic cells (DCs). Thymic stromal lymphopoietin (TSLP) is a cytokine expressed by epithelial cells, including keratinocytes, and is important in allergic inflammation. Subsequent studies have shown that TSLP promotes T helper type 2 (TH2) cell responses associated with immunity to some helminth parasites and the pathogenesis of many inflammatory diseases, including atopic dermatitis and asthma. TSLP can promote TH2 cytokine-associated inflammation by directly promoting the effector functions of CD4+ TH2 cells, basophils and other granulocyte populations while simultaneously limiting the expression of DC-derived proinflammatory cytokines and promoting regulatory T cell responses in peripheral tissues.

References

1. Comeau MR, *et al.* (2010) The influence of TSLP on the allergic response. *Mucosal Immunol.* 3 (2): 138-47.
2. Ziegler SF. (2010) The role of thymic stromal lymphopoietin (TSLP) in allergic disorders. *Curr Opin Immunol.* 22 (6): 795-9.
3. Liu YJ, *et al.* (2007) TSLP: An Epithelial Cell Cytokine that Regulates T Cell Differentiation by Conditioning Dendritic Cell Maturation. *Annual Review of Immunology.* 25: 193-219.

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